Data: Making Line Plots

How can line plots show data you have collected?

Miss Vega recorded the length of nails in her toolbox. How can she make a line plot to show these lengths?

Length of Miss Vega's Nails (Inches)
¾, 1, 1½, 2 ¼, 1, 1 ¾,   1 ½, 1 ¼, ¾, 1 ½, 2 ¼,   1 ½, ¾, 1

What information is given in the table? *The length of each of Miss Vega's nails.*

Why might Miss Vega want to organize and display the data in a line plot instead of a table? *To look for patterns, to see which lengths of nails occur most often or least often, to see what she has the most of.*

Steps to make a line plot:

1. Draw a line and choose a scale based on the lengths in the table. The scale should show the data values from least to greatest.
2. Write a title for the line plot.
3. Mark an X for each length.

Title: Length of Miss Vega's Nails

```
                              X
        X                     X
        X         X           X                       X
        X         X     X     X     X                 X
       _____
        ¾         1    1 ¼   1 ½   1 ¾    2    2 ¼
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Miss Vega can follow these steps to make a line plot. The line plot shows the length of her nails.